

**AMENDMENTS TO THE SPECIFICATION**

Please replace the paragraph beginning on page 1, line 5, with the following paragraph.

-- This is a continuation of U.S. Application Serial No. 09/282,771, filed March 31, 1999,  
now U.S. Patent No. 6,355,010, incorporated herein by reference in its entirety. --

Please replace the paragraph beginning on page 3, line 11, with the following paragraph.

-- Multiple vessel perfusion assemblies constructed in accordance with the present invention provide a means for simultaneously flowing a medium into the open ends of a plurality of vessels. In a first embodiment, the multiple vessel perfusion assembly includes a branched conduit having a common portion, an inflow cannula formed at one end of the common portion and a plurality of outflow cannulae respectively formed at the other end of the common portion. The branched conduit includes a lumen for conveyance of a medium therethrough. The inflow cannula can comprise any tubular member configured to be inserted through the wall of the heart or proximal aorta, and the outflow cannulae can comprise any tubular members configured to be inserted into the open ends of vessels. The inflow cannula includes an inlet, and the outflow cannulae include outlets, which are in fluid communication with the lumen of the branched conduit. In this manner, insertion of the inflow cannula through the heart or aortic wall and respective insertion of the plurality of outflow cannulae into the open ends of the vessels provides flow of oxygenated blood from the heart or aorta into the vessels. The branched

multiple vessel perfusion assembly further includes a cooler for cooling the medium as it passes through the lumen of the branched conduit. The cooler may be disposed within the lumen of the inflow cannulae. --